## Amendments to Claims

This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of Claims

- (currently amended) Device for transmitting digital signals from a first unit to a second unit, the first unit A data communication system, comprising:
- a first unit and a second unit, wherein the first unit is configured to transmit digital signals to the second unit, the first unit comprising;
  - a data transmitter for emitting the first digital signals within first time intervals;
  - a pseudo random-generator or a random generator for generating pseudo random values or random values, respectively, and
  - a combining unit for combining the <u>first digital</u> signals emitted by the data transmitter with the pseudo random values or the random values; <u>and</u>
  - a control unit for controlling the combining unit in such a manner that pseudo random values or random values are transmitted at times other than the first time intervals;

## and the second unit comprising:

 a data receiver connected to the data transmitter by a transmission path, for receiving the <u>first</u> digital signals.

## wherein

a control unit is provided for controlling the combining unit in such manner that pseudo-random data or random data are transmitted during intervals between periods for transmitting information data.

2. (currently amended) Device The data communication system according to claim 1, wherein a signaling line is provided between the data transmitter and the data receiver, via which wherein the data transmitter signalizes signals the presence of information data, or pseudo random data, or random data first digital signals, pseudo random values, and/or random values to the data receiver.

- 3. (currently amended) Device The data communication system according to claim 1, wherein the data receiver has a signalizing signaling means for requesting information data first digital signals from the data transmitter, and the data transmitter is adapted to send information data or pseudo random data or random data first digital signals, pseudo random values, and/or random values in response to this signal output from the signaling means.
- 4. (currently amended) Device-The data communication system according to claim 1, wherein the combining unit is adapted to continuously combine information first digital signals to be transmitted with-signals values of the pseudo random generator or random generator, and a second combining unit is provided in the second unit for also combining received signals with pseudo random-data values or random values.
- 5. (currently amended) Device-The data communication system according to claim 4, wherein an additional transmission path for transmitting the pseudo random-data values or random values is provided, so that at the second unit a combination with the pseudo random-data values or random values can take place synchronously with a combining with the pseudo random data values or random values at the first unit.
- 6. (currently amended) Device-The data communication system\_according to claim 1, wherein the second unit comprises a second pseudo random-generator or random generator for generating pseudo random-numbers values or random values of a same sequence as the pseudo random generator of the first unit.
- 7. (currently amended) Device-The data communication system according to claim 6, wherein an additional transmission path is provided for synchronizing the pseudo random generator or random generator of the first unit and the pseudo random generator or random generator of the second unit.
- (currently amended) Device-The data communication system according to claim 6, further comprising a unit for synchronizing the pseudo random generators or random generators of the first unit and the second unit.

- 9. (currently amended) Device-The data communication system according to claim 8, wherein the unit for synchronizing the pseudo random generators or random generators of the first unit and the second unit is designed so that at a beginning of each-single signal transmission a synchronization sequence is started which makes possible used instead of pseudo random values or random values, which enables a synchronization of the pseudo random generators or random generators of the first unit and the second unit.
- 10. (currently amended) Device-The data communication system according to claim 9, wherein for the synchronization sequence, the data transmitter is adapted to emit a previously established predetermined or known bit pattern which is then combined with pseudo random values or random values or random values of the pseudo random generator or random generator of the first unit by the combining unit connected on an output side of the pseudo random generator or random generator, and a control unit of the data receiver is adapted to perform at various times a synchronization of the pseudo random generator or random generator of the second unit with the received data from the first unit until a known-given transmission pattern occurs as a result of the combination.
- 11. (currently amended) Device-The data communication system according to claim 10, wherein for simplified synchronization between the data transmitter and the data receiver, a short pseudo random or random sequence is used at first, and after a given period of time, or after a synchronization with this pseudo random or random sequence, a switch-over is made to a longer pseudo random or random sequence.
- 12. (currently amended) Method A method for transmitting digital signals between a plurality of units of which at least one first unit comprises a data transmitter and at least one second unit comprises a data receiver, and the at least one first unit is connected by at least one transmission path to the at least one second unit;

wherein true or pseudo random data are inserted between information databy inscrting pseudo random values or random values between substantially all of the first digital signals emitted by the data transmitter, so that in a spectrum of a signal to be transmitted, gaps between spectral lines are substantially reduced, so that amplitudes of the spectral lines fall off are decreased.

however without-an substantially increasing the entire bandwidth needed for transmission-being substantially increased.

- 13. (currently amended) Method A method for transmitting digital signals between a first unit comprising a data transmitter, and a second unit comprising a data receiver, the data transmitter and the data receiver-being joined are by a transmission path, the method comprising the steps of:
- emitting first digital-information signals with the data transmitter;
- generating pseudo random values or random values with a pseudo random generator or a random generator;
- encoding the digital information signals by combining the <u>first digital</u> signals with the generated pseudo random values or random values; and
- receiving the encoded digital signals with the data receiver; wherein the method includes the further step of:
- inserting true random data or pseudo random data in <u>substantially all</u> intervals between information data the first digital signals.